

In the Claims:

Please cancel claims 1-3, and add the following new claims 4-22.

- B1
4. A pressure transducer housing comprising:
a metal base;
walls which are formed from a polymer material and which extend about the metal base
and which define an opening opposite the metal base to allow access for installing a pressure
transducer on the metal base; and
multiple leads extending through the walls.--
- 5. The housing of claim 4 further comprising:
a cap that fits over the opening.--
- 6. The housing of claim 4 further comprising:
a cap that defines a vent hole and that fits over the opening.--
- 7. The housing of claim 4 wherein the walls extend about the metal base so as to
leave exposed only a portion of the base opposite the opening.--
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- 8. The housing of claim 4 wherein the base is formed from *one of said multiple leads* ~~a lead~~ extending through
one of the walls.--
- Rule 1.121* --9. The housing of claim 4 wherein the base is formed from a downset lead extending
through one of the walls.--
- 10. The housing of claim 4 wherein the walls define a shelf region internal to the
housing and opposite the opening in which portions of the multiple leads are partially
embedded and are partially exposed opposite the opening.--

--11. The housing of claim 4 wherein,
the base is formed from a lead extending through one of the walls; and
the walls define a shelf region internal to the housing and opposite the opening in
which portions of the multiple leads are partially embedded and are partially exposed
opposite the opening.--

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--12. A pressure sensor comprising:
a housing which includes a metal base and walls which are formed from a polymer
material, the metal base and walls defining a chamber with a vent hole;
multiple leads extending into the chamber through the walls; and
a pressure transducer disposed in the chamber upon the metal base and electrically
connected to at least one of the leads within the chamber.--

one of said multiple leads
--13. The pressure sensor of claim 12 wherein the base is formed from ~~a lead~~ extending
through one of the walls.--

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--14. The pressure sensor of claim 12 wherein the walls extend about the base so as to
leave exposed only a portion of the base interior to the chamber.--

--15. The pressure sensor of claim 12 wherein the walls extend about the base so as to
leave exposed portions of the base interior to the chamber and portions of the base exterior to the
chamber.--

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--16. The pressure sensor of claim 12,
one of said multiple leads one of said chamber walls
wherein the base is formed from ~~a lead~~ extending through ~~a chamber wall~~ and
wherein the chamber walls define a shelf region internal to the chamber in which
portions of the multiple leads are partially embedded and are partially exposed within the
chamber; and

further including,
at least one wire bond that electrically connects the pressure transducer and an exposed portion of at least one of the leads.--

--17. The pressure sensor of claim 12 wherein the chamber is filled with a pressure transfer medium.--

--18. The pressure sensor of claim 12 wherein the chamber is filled with a silicone gel which serves as a pressure transfer medium.--

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Cont.
--19. A method for producing a pressure sensor comprising the steps of:
providing a metal lead frame with multiple leads;
downsetting at least a portion of one of the leads relative to other ^{*of the*} leads in a lead frame;
molding a polymer housing around the lead frame so as to produce walls that define a chamber having a transducer installation opening and through which walls the multiple leads extend and in which the downset portion is exposed inside the chamber so as to provide a metal base opposite the installation opening;
installing a pressure transducer in the housing by passing the transducer through the installation opening and securing the transducer to the base inside the chamber;
wire bonding at least one of ^{*said multiple*} the leads to the pressure transducer;
providing a pressure transfer medium within the chamber; and
securing a cap over the installation opening while providing a vent hole into the chamber.--

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--20. The method of claim 19 wherein the step of wire bonding includes:
heating the lead having the downset portion that serves as the base in order to heat the pressure transducer disposed thereon.--